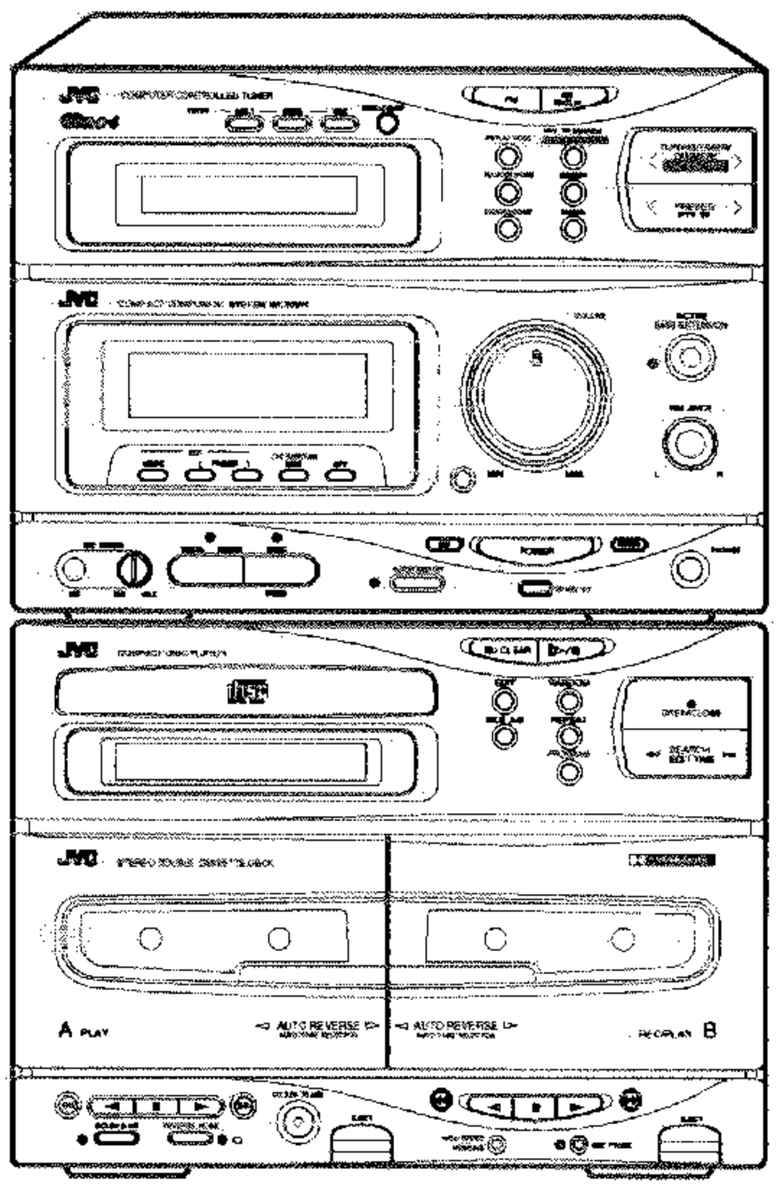
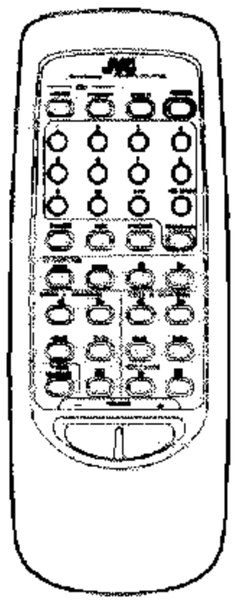
CA-S50RBK

JVC

COMPACT COMPONENT SYSTEM

CA-S50RBK





Area Suffix

BS	....	the U.K.
E	.....	Continental Europe
G	.....	Germany

COMPACT disc DIGITAL AUDIO

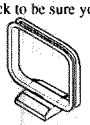
Getting Started Right

Inside the packing box....

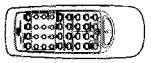
Unpacking

Of course you have already opened your CA-S50RBK carton, since you are reading this manual. Although the Unit is quite sturdy, you may want to save the packing to re-pack your CA-S50RBK in case you are moving it some distance.

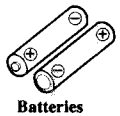
Check to be sure you have all of the following things, which are supplied with the CA-S50RBK:



AM (MW/LW) Loop Antenna



Remote Control



Batteries

FM Wire Antenna (only for Germany)

FM Feeder Antenna (except for Germany)

Antenna Adaptor (except for Germany)

If any are missing, contact your dealer immediately.

Where can you put it?

Location

You can place the CA-S50RBK in many different kinds of locations to suit your needs; just observe the cautions on page 2: keep away from moisture and heat; leave some space between the Unit and its surroundings, more than 1 cm at the sides of the console and 10 cm at the back. (See page G-3.)

NEVER place the CD/Cassette Deck Section on the Tuner/Amplifier Section. If you do, the ventilation holes of the Tuner/Amplifier Section will not work.

NEVER place the CD/Cassette Deck Section to the left of the Tuner/Amplifier Section, either. If you do, noise may occur when playing back or recording tapes.

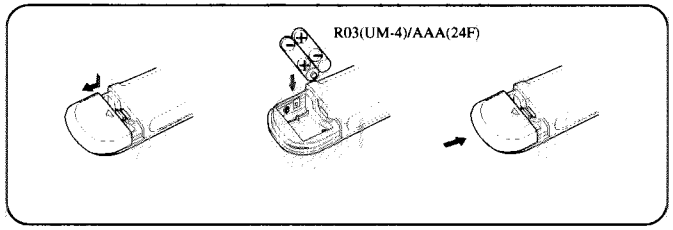
Very little assembly required

Set Up

You will need to do the following 4 things to get your CA-S50RBK ready to use.

1. Put Batteries in the Remote Control

Match the polarity (+ and –) on the batteries with the + and – markings on the battery compartment.

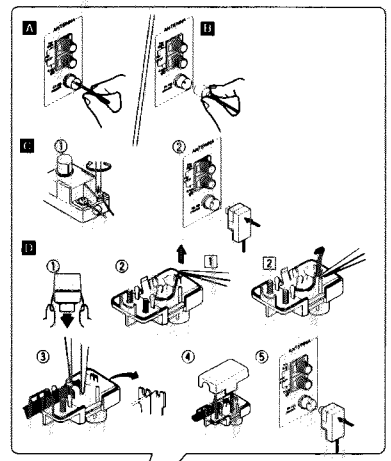


CAUTION: Observe Proper Handling of Batteries.
To avoid battery leakage or explosion:
- Remove batteries when the Remote will not be used for a long time.
- When you need to replace the batteries, replace both batteries at the same time with new ones.
- Don't use an old battery together with a new one.
- Don't use different types of batteries together.

Please look at the diagrams on pages 4 and 5 to do some more things.

2. Connect the AM (MW/LW) and FM Antennas

FM Antenna Connections



For Germany

A Using the Supplied Wire Antenna
The FM wire antenna provided can be connected to the FM 75-ohm COAXIAL as a temporary measure.

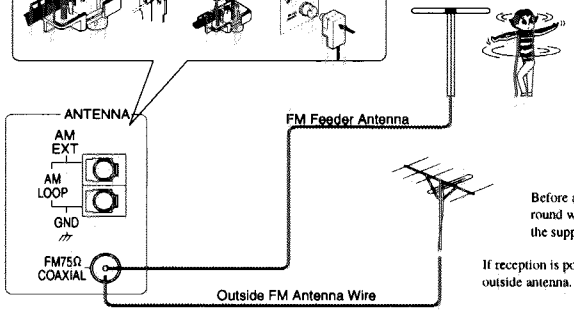
B Using the Coaxial Type Connector (Not Supplied)
A 75-ohm antenna with coaxial type connector (DIN 45332) should be connected to the FM 75-ohm COAXIAL terminal.

For Other Countries

C Using the Supplied Feeder Antenna
① Attach the feeder antenna to the Antenna Adaptor as shown in the figure.
② Connect the Antenna Adaptor to the FM 75-ohm COAXIAL terminal.

D Using FM 75-ohm Antenna Cable (Not Supplied)
① Open the claws at both sides and remove the cover.
② Move the conductor wire from 1 to 2 using tweezers or similar tool (only when using coaxial cable).
③ Fix the coaxial cable and its core.
④ Put on the cover.
⑤ Connect the Antenna Adaptor on the FM 75-ohm COAXIAL terminal.

Note:
Make sure the antenna conductors do not touch any other terminals, connecting cords and power cord on the system.
This could cause poor reception.

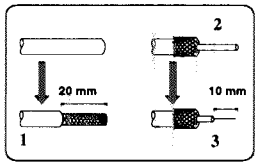


For Germany
Extend the supplied wire antenna horizontally.

For Other Countries
Unfold the loops of the supplied dipole FM feeder antenna and extend them as shown.
Fasten them up in the position which gives you the best FM reception.

Before attaching a 75 ohm coaxial lead (the kind of round wire going to an outside antenna), disconnect the supplied dipole indoor antenna.

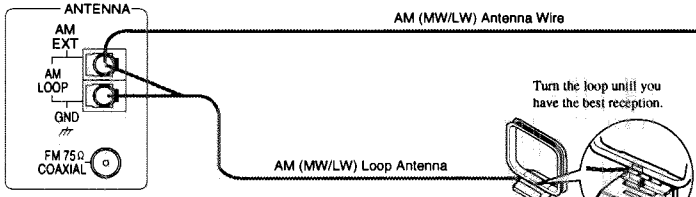
If reception is poor, connect the outside antenna.



How to Strip the 75-ohm Coaxial Cable
1. Strip back the outside covering of the 75 ohm coaxial cable to expose the braided metallic mesh.
2. Pull the mesh back over the cable as shown.
3. Strip the insulation about 10 mm back from the central wire.
4. Attach to the supplied Antenna Adaptor, as shown in the diagram above.

CAUTION: To avoid noise, keep antennas away from metallic parts of the CA-S50RBK, connecting cords and the AC power cord.

AM (MW/LW) Antenna Connections



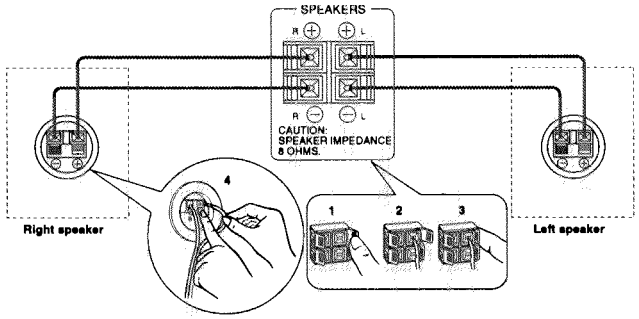
If reception is poor, connect the outside antenna.

Turn the loop until you have the best reception.

Note: Even when connecting an outside AM (MW/LW) antenna, keep the indoor AM (MW/LW) loop connected.

Snap the tabs on the loop into the slots of the base to assemble the AM (MW/LW) loop.

3. Connect the Speakers



For each speaker connect one end of the speaker signal cable to the speaker terminals on the back of the CA-S50RBK and one end to the speaker.
On the back panel:

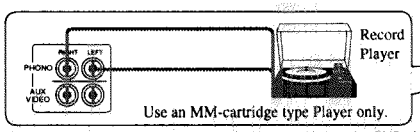
1. Open each terminal.
2. Insert the end of the speaker signal cable as shown (be sure to remove the insulation at the end of each wire first).
3. Close the terminals to clamp the speaker signal cable firmly in place.
4. Connect the red (+) and black (–) terminals of the right side speaker to the red (+) and black (–) terminals marked R on the CA-S50RBK. Connect the red (+) and black (–) terminals of the left side speaker to the red (+) and black (–) terminals marked L on the CA-S50RBK.

IMPORTANT: Check your speakers for correct impedance: Speakers 8 ohms only.

CAUTION: If the TV is installed near speakers, irregular colors may result. In this case, set the TV away from the speakers.

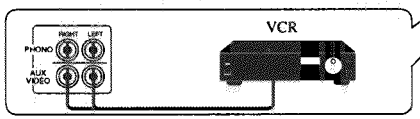
4. Connect the System Connecting Cords and Auxiliary Equipment

Record Player

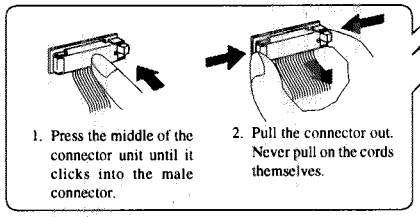


If the Player is supplied with a ground wire, connect it to the GND ⏚ terminal where the AM (MW/LW) Loop Antenna is connected.

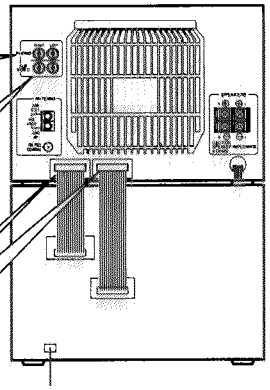
VCR



System Connecting Cords



1. Press the middle of the connector unit until it clicks into the male connector.
2. Pull the connector out. Never pull on the cords themselves.



When recording an AM (MW/LW) broadcasting program, beat sounds may be heard and recorded. Set the BEAT CUT selector to either 1 or 2, so that beat sounds will not be heard nor recorded.

CAUTION: First make all connections before plugging the Unit into any AC power outlet.

Now you can plug the AC power cord into the wall outlet, and your CA-S50RBK is at your command!

Common Operations

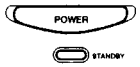
Here are the things that apply to all the functions of your CA-S50RBK. If something in a later procedure is unclear to you, check back here.

COMPUPLAY

The Magic of

COMPUPLAY is JVC's feature that lets you control the most used functions of the CA-S50RBK with a single touch. This One Touch Operation starts playing a CD, turns on the radio or plays a tape with a single press of the play button for that function. What One Touch Operation does for you is to turn the power on, then start the function you have called for. If the Unit is not ready, such as no CD or tape in place, the Unit still comes on and then pauses so you can put in a CD or tape.
How One Touch Operation works in each case is explained in the section about that function.

Turning the CA-S50RBK On



Press POWER; the STANDBY indicator goes out.

- The CA-S50RBK comes on ready to do whatever it was doing when the power was last shut off. So if the last thing you were doing was listening to a tape in deck B, you now are ready to listen to a tape again in deck B, or you can change to another source.
- If you were listening to the radio last, the radio comes on playing that last station.

Turning the CA-S50RBK Off

Press POWER again; the STANDBY indicator lights up and the display blanks, except for the clock display.

- The small amount of the power (17 watts) is always consumed even in the stand-by mode.
- To switch off the Unit completely, unplug the AC power cord from the AC outlet. When you unplug the AC power cord, the preset stations of the Tuner will be erased in a couple of days.

Making it sound the way *You* want it to:

Controlling the Sound

The same set of buttons and knobs control the sound, no matter which function is producing it.

•Volume

Caution: Too LOUD!

Volume Control

Rotate clockwise to increase loudness, counter-clockwise to reduce loudness.

CAUTION: Always set the VOLUME control to MIN before turning on a connected source such as a VCR or Record Player, or starting any other of the sound sources such as the radio, tape, or CD player. Otherwise, if the VOLUME control is turned up, the sudden blast of sound energy can permanently damage your hearing and/or ruin your speakers.

•Balance

Speaker Balance Control

If the sounds you hear from the right and left speakers are not well-balanced, you can adjust the speaker output balance with the BALANCE control.

Special Effects Control

The CA-S50RBK has some preset sound effects that give you control of the way your music sounds, so you can tailor it for your room and for the quality of the source.

Preset SEA (Sound Effect Amplifier) effects

You can select a sound effect by pressing SEA MODE to cycle through the following effects until the effect you want is pointed with the cursor (►) on the display:

•POPS
•JAZZ
•ROCK
•CLASSIC
•MOVIE

POPS	Adds a pleasing quality to pop music.
JAZZ	Gives a feeling of a live atmosphere. Good for acoustic music.
ROCK	Boosted low and high frequencies.
CLASSIC	Set for wide and dynamic sound stereo systems.
MOVIE	Adds breadth to sounds so you feel like you're in a movie theater.

Moreover, each preset sound effect has 10 different SEA patterns. After selecting your desired sound effect mode, press PRESET > or < (or PRESET on the Remote).
For example, when you have selected POPS, pressing PRESET > gives you the following settings:

POPS1 → POPS2 → POPS3 → . . . → POPS10

When you select FLAT with SEA MODE or when you press OFF, the sound effect will be cancelled.

(No.20476) 1-5

•STADIUM
•D.CLUB
•HALL

LIVE SURROUND effects

You can select a Live Surround effect by pressing LIVE SURROUND MODE (or LIVE.S on the Remote) to cycle through the following effects until the effect you want is pointed with the cursor (►) on the display:

STADIUM Adds clarity and spreads the sound, like the sound in an outdoor stadium.
D.CLUB Increases resonance and bass.
HALL Adds depth and brilliance to the sound, like in a concert hall.

When you press OFF, the Live Surround mode will be cancelled, and at the same time the SEA effect will be cancelled.

SOUND EFFECT DEMONSTRATION

Sound Effect Demo Mode

Since there are so many preset sound effects, you may be sometimes unable to decide which sound effect to select. In this case, you can use a very useful function – Sound Effect Demo Mode.

- ❑ While playing a CD, a tape, etc., keep pressing DEMO (the same button as MSEC) for a few seconds. The Unit starts demonstrating 10 preset patterns of each SEA effect (POPS, JAZZ, ROCK, CLASSIC, and MOVIE) for a few seconds. When you find the desired sound effect, press DEMO again to cancel the demo mode, and select the sound effect.

Things to remember about using special effects:

- ❑ Experiment with and set your special effects *before* you start recording with Auto Edit or Programmed Edit, because once recording starts, the special effects cannot be changed without stopping recording, and often having to start over. If you need different sound effects for each selection, use the standard recording features described on page 15, rather than Auto Edit or Programmed Edit.
- ❑ Each of the special effects changes the sound in a different way by changing which parts of the sound are increased or reduced. To see how each part of the sound will be changed, watch the display just as you press an effect button when music is playing. You will see a graphical display showing the effect's pattern for just a short time before the effect starts.

ACTIVE BASS EXTENSION

Active Bass Extension

This feature is designed and incorporated to reinforce the bass sound, depending on the volume level to maintain the richness and fullness of the bass.
Press ACTIVE BASS EXTENSION to use this effect so that the LED lights up. To cancel it, press the button again.

VOCAL MASKING

Using the Vocal Masking Function

Pressing VOCAL MASKING cancels the voice part of a song so you can broadcast your own voice through a microphone in place of the lead singer. Now it sounds as if you are singing directly with the band. To cancel it, press the button again. See page 22 for a more complete discussion of this function.

MSEC (Multi Source-Related Effect Control)

Memorizing the Sound Effect for Each Sound Source

Press MSEC so that the indicator lights.

- ❑ The learning function of the CA-S50RBK memorizes one sound effect for each sound source, so once you set your desired sound effect for each sound source, you don't have to repeat the many setting procedures each time you play the sound source.
  While the indicator is lit, each time you change the sound source, the preset sound effect for that sound source will be recalled.

To cancel the MSEC function, press MSEC again so that the indicator goes off.

Listening with Headphones

A standard pair of headphones can be connected at the PHONES jack on the front panel. No sound can be heard from the speakers. **Be sure to turn down the volume before connecting or putting on headphones, as high volume can damage both the headphones and your hearing.**

The Display and The LEDs

The Display and the LEDs — Two Very Useful Hints

- ❑ The Display Panel tells you many useful things about what your Unit is doing. Watch it as you give instructions to the CA-S50RBK by pressing buttons.
- ❑ A few of the control have a small light, called an LED, next to or even right on the function button or knob itself. The light comes on when the function is on, and goes out when it is not in use.

Adjusting the Brightness of the Display

In the stand-by mode (while the Unit is off), you can adjust the brightness of the clock display.
Pressing TUNING/TIMER/DIMMER/CHARACTER > makes the display brighter.
Pressing TUNING/TIMER/DIMMER/CHARACTER < makes the display dimmer.

Listening to the Radio

The controls for the radio are located in the Tuner section, just above the large volume control. With these controls you can browse through all the stations or use the preset function to go immediately to a particular station.

❑ To record from the radio, see "Recording any Sound Source to Tape," page 16.

First we'll explain how to tune in stations, and then how to preset the ones you listen to often.

Radio

One Touch Radio

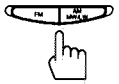
Just press AM (MW/LW) to turn on the Unit and start playing the most recent AM (MW/LW) station tuned in, or press FM to start the most recent FM station playing. If you press TUNER on the Remote instead, you can start playing the most recent station tuned in.

- ❑ You can switch from any other sound source to the radio by pressing either AM (MW/LW) or FM.

Tuning in a Station

Press AM (MW/LW) or FM to turn on the radio.

Three ways to tune in a station



You have three ways to select a station:

1. Press and release TUNING/TIMER/DIMMER/CHARACTER < or > to move from station to station until you find the one you want.

   OR

2. Hold down TUNING/TIMER/DIMMER/CHARACTER < or >, the frequency starts changing on the display. When a station is tuned in, the TUNED indicator lights up on the display and the frequency stops changing.

   OR

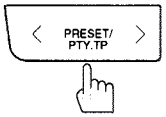
3. Press once and release PRESET/PTY.TP < or > to go to the next preset station, or hold PRESET/PTY.TP < or > to cycle through the preset stations: release the button when the preset station you want shows on the display. (This method is possible after presetting stations by yourself.)

You can also use the Remote to tune in stations and preset channels:

• To tune preselected stations with the Remote:

1. Press TUNER so that you can receive the most recent station tuned in.
2. Select the station by entering the preset channel number in the 10 key pad of the Remote. The display shows the new channel number and frequency.

How to preset AM (MW/LW) and FM radio stations



Presetting Stations

Once a station is assigned to a channel number, the station can be quickly tuned either from the Remote using the 10 key pad or the CA-S50RBK itself using PRESET/PTY.TP < or > to call up the channel number.

- ❑ You can preset a total of 40 stations, either AM (MW/LW) or FM.
- ❑ Preset stations may be erased when power is cut off to the Unit, as when it is unplugged from the AC outlet or a power failure occurs. If the preset stations are lost, simply set the stations again using the following procedure.

To preset radio stations:

1. Tune in the station you want to set.
2. Press MEMORY.
   - ❑ On the display, MEMORY lights up and "— —" will blink for 4 seconds. During these 4 seconds while "— —" is blinking you can assign a channel number to the station and enter it into the memory.
3. Select a channel number by pressing PRESET/PTY.TP < or > until you find the channel number you want.
4. Press MEMORY and the station will be assigned to the channel number showing on the display.

To cancel the preset stations:

1. Press CANCEL.
   - ❑ On the display, CANCEL and "— —" will blink for 4 seconds. During these 4 seconds while CANCEL and "— —" are blinking you can cancel preset stations.
2. Select a channel number by pressing PRESET/PTY.TP < or > until you find the channel number of the station you want to cancel.
3. Press CANCEL and the station will be erased.

Receiving in Stereo or Monaural

When an FM stereo broadcast is hard to receive or noisy:

- ❑ Press FM MODE/MUTE and reception will improve, although you will loose the stereo effect. In this state, you will hear some noise while tuning into a station.
- ❑ To restore stereo effect, press FM MODE/MUTE again so that AUTO appears on the display. In this state, when a program is broadcast in stereo, you will hear stereo sound; when in monaural, you will hear monaural sound. Furthermore, in this state, you won't hear noise while tuning into stations.

RDS (Radio Data System)

Receiving FM Stations with RDS (Radio Data System)

RDS is a broadcasting service which a growing number of FM stations are now providing. It allows these FM stations to send additional signals along with their regular program signals. For example, the stations send their station names, and information about what type of program they broadcast, such as sports or music, etc.
When tuned to an FM station which provide the RDS service, the RDS indicator lights up, the station frequency (and then the station name if sent) is displayed.
The TP (Traffic Program) indicator lights up on the display when the received broadcast carries traffic announcements, and the TA (Traffic Announcement) indicator lights up while a traffic announcement is being received.

What Information Can RDS Provide

With the CA-S50RBK, you can watch three types of RDS service as well as two other indications on the display. To show them on the display, press DISPLAY MODE.
Each time you press the button, the display changes to show the following information:

PS (Program Service):	While searching, "PS" appears and then station names commonly known will be displayed. "NO PS" appears if no signal is sent.
PTY (Program Type):	While searching, "PTY" appears and then types of broadcast programs. "NO PTY" appears if no signal is sent.
RT (Radio Text):	While searching, "RT" appears and then text messages the station sends. "NO RT" appears if no signal is sent.
Character Mode:	8 characters you have set yourself. (See page 10.) "NO CHARA" appears if you have not used this function or if you have tuned to preset number over 10.
Station Frequency:	Station frequencies.

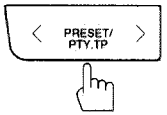
These are the three RDS services

If you press DISPLAY MODE while tuning to an AM (MW/LW) station, the display alternates between station frequency and character mode since RDS is not available in AM (MW/LW) broadcasts.

PTY (Program Type) codes

Descriptions of the PTY codes and TP
With the CA-S50RBK, you can receive the following PTY and TP signals

NEWS:	News
AFFAIRS:	Topical program expanding on the current news or affairs
INFO:	Programs on medical service, weather forecast, etc.
SPORT:	Sports events
EDUCATE:	Educational programs
DRAMA:	Radio plays
CULTURE:	Programs on national or regional culture
SCIENCE:	Programs on natural sciences and technology
VARIED:	Other programs like comedies or ceremonies
POP M:	Pop music
ROCK M:	Rock music
M.O.R. M:	Middle-of-the-road music (usually called "easy listening")
LIGHT M:	Light music
CLASSICS:	Classics
OTHER M:	Other music
ALARM:	Emergency broadcasts
NONE:	Undefined
TP:	Broadcasts which carry traffic announcements



Searching the Program by PTY codes and TP

One of the advantages in the RDS service is that you can locate a particular kind of program by specifying the PTY codes.

To search a program using the PTY codes, follow this procedure:

1. Press PTY.TP SEARCH/CHARACTER SET.
   The display alternates between "PTY TP" and "SELECT."
2. Select the PTY code with PRESET/PTY.TP < or > within 4 seconds and show the PTY (or TP) code on the display.
   - ❑ Each time you press the button, the display gives you the following:
     NEWS⟷AFFAIRS⟷INFO⟷SPORT⟷EDUCATE⟷DRAMA⟷CULTURE⟷SCIENCE⟷VARIED⟷POP M⟷ROCK M⟷M.O.R. M⟷LIGHT M⟷CLASSICS⟷OTHER M⟷ALARM⟷TP⟷NEWS
3. Press PTY.TP SEARCH/CHARACTER SET within 4 seconds again.
   - ❑ While searching, the display alternates between "SEARCH" and the selected PTY code.
   - ❑ The Unit searches 40 preset channels and stops when it finds the one you have selected. To continue searching after the first stop, press PTY. TP SEARCH/CHARACTER SET again while the indications on the display blink. If no program is found, "NOT FOUND" appears on the display.
     - If you select TP, the Unit will stop searching when it finds a broadcast carrying traffic announcements. However, this does not necessarily mean that you can listen to the traffic announcements at that time. Rather it means that you will get them when they are broadcast.

Giving names to stations: Character Mode

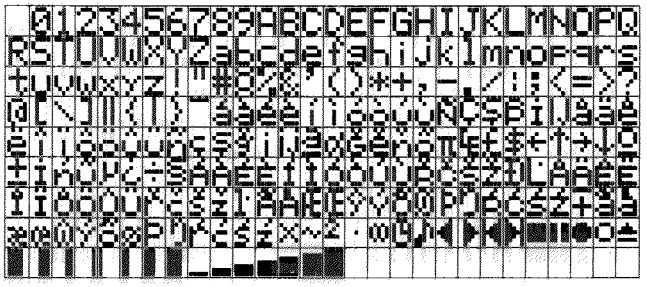
Character Mode

You can give names (8 characters) to any station (FM and AM (MW/LW)) regardless of the RDS service availability, and show them on the display by pressing DISPLAY MODE repeatedly. To do this, you need to preset the stations you want to name into the first ten preset numbers.

To give a name, follow this procedure:

1. Press PRESET/PTY.TP < or > and select a preset number from 1 to 10 on the display.
2. Press PTY.TP SEARCH/CHARACTER SET within 4 seconds.
3. Press TUNING/TIMER/DIMMER/CHARACTER < or > within 10 seconds to select the first character.
   - ❑ Each time you press the button, the character changes. The available characters are listed below.
4. Press PTY.TP SEARCH/CHARACTER SET to move the character insertion position on the display.
5. Repeat steps 3 and 4.
6. Press MEMORY within 10 seconds.
   - ❑ The Unit memorizes the name you have given. Once you have given the name to a preset channel, this name appears first whenever you tune to this preset channel. (If RDS sends the PS signal, it will appear after the name you have given.)
   - ❑ It is not necessary to input all the 8 characters. When you finish, press MEMORY.

Available characters



Listening to a Compact Disc

Here are the basic things you need to know to play a CD and locate the different selections on it. Each selection is called a track, so when we are talking about locating a track, we are also talking about how you find a certain song or performance.

Basics of Using the CD Player

COMPU PLAY

Compact Disc Play

The quickest way to start a CD is with One Touch Operation:

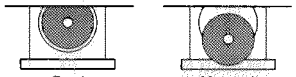
- ❑ Press Play/Pause ▷/II on the CD player or Play ► in CD CONTROL on the Remote.
- ❑ If a CD is already loaded, the Unit automatically turns on and starts to play it from track 1.
- ❑ If no CD is loaded, the CD tray opens, and you can put in a CD, printed side up, press Play/Pause ▷/II and the tray closes and the CD starts playing.
- ❑ If you press ▲ OPEN/CLOSE, the Unit automatically turns on and the CD tray comes out.

How to use the CD player: from the most basic to advanced

To Load, Play, and Stop a CD

1. Press ▲ OPEN /CLOSE.
2. Put a CD, printed side up, into the tray.
   - ❑ When using an 8 cm CD, place it on the inner circle of the tray.

CAUTION: Place the disc correctly on the circle of the tray.



Play/Pause

3. If you want to listen to the CD now, press Play/Pause ▷/II and adjust the volume.
   - ❑ The CD tray closes automatically.
   - ❑ The display shows the track being played and the length of time since it started.
4. To stop the CD, press ■/CLEAR. When you start again, the CD begins with track 1.
5. To pause the play, press Play/Pause ▷/II while the CD is playing so when you press Play/Pause ▷/II again the CD starts just where you left off.
6. To remove a CD, press ▲ OPEN/CLOSE, take the CD out, and press ▲ OPEN/CLOSE again to close the tray. Keep the tray closed except during loading and unloading to protect the mechanism from dust and damage.

CD Find track

How to Find the Track or a Particular Point You Want

- ❑ Each time you press briefly and release SEARCH /EDIT TIME I◄◄ or ►►I the track changes by one.
  - Press and release SEARCH/EDIT TIME ►►I to go ahead one track at a time.
  - Press and release SEARCH/EDIT TIME I◄◄ to go back one track at a time.
- ❑ Holding down SEARCH/EDIT TIME I◄◄ or ►►I will fast forward or fast reverse the CD so you can quickly find the particular part of a track you want to listen to.
- ❑ Holding down I◄◄ or ►►I on the CD CONTROL section of the Remote allows you to change tracks continuously.

Using the Remote to find a track

Locating a Track with the Remote Directly

Using the 10 key pad on the Remote allows you to go directly to the beginning of any track.

1. Press CD 10KEY.
2. Enter the number of the track you want using the 10 key pad.
   - Example: for track 5, press 5. For track 15, press +10 then 5. For track 20, press +10, then 10.
3. As long as a CD is loaded and the Unit is on, as soon as you enter the number of the track you want, it will start to play.

With programming, you can play back tracks in any order

Programming the Playing Order of the Tracks

In addition to the high quality sound which makes the CD such a good way to listen to music, you can change the order in which the tracks play.

Random Play

Press RANDOM on the CD player.

- ❑ The tracks will play in no special order.
- ❑ When all of the tracks have been played, the CD stops.
- ❑ Press REPEAT before or during random play to instruct the CA-S50RBK to continue with a different random track selection after the last selection is played.
- ❑ To cancel random play, press ■/CLEAR.

Programmed Play

You can arrange the tracks to play in any order you like with the Program function. The Remote is very useful for this because you can select tracks by number with the key pad. See "How to Use the Remote Control," page 23, if you need more information about its use. You can also use the main Unit.

Program with the Remote

To program the CD track order from the Remote, follow this procedure:

1. Press PROGRAM.
2. Press CD 10KEY.
3. Press the number of the first track you want to hear, then the number of the second track, and so on until you have entered all the track numbers you want to play.
   - ❑ Refer to the section "How to Use the Remote Control" on page 23 if you have questions about how to enter numbers above 10.
   - ❑ Your program can include up to 32 tracks, and you can repeat tracks if you wish.
4. Press Play/Pause ▷/II to start the program—the first track you programmed will start to play, followed by the next one you entered, until all the selected tracks are played.
5. To stop the CD during Programmed Play, press Stop ■. To cancel the program, press PROGRAM.

How to program: just 5 easy steps

Programming from the front panel

To program the CD from the main Unit, follow this procedure

1. Press PROGRAM.
2. Press SEARCH/EDIT TIME I◄◄ or ►►I to locate the track you want to start with.
3. Press PROGRAM to store the selected track.
4. Repeat steps 2 and 3 until you have entered all the tracks you want to program.
5. Press Play/Pause ▷/II and the Unit will begin playing the tracks in the order you programmed them.
6. To stop the CD during Programmed Play, press ■/CLEAR. To cancel the program, press ■/CLEAR again.

Programming Hints

A few hints to make programming easier

- ❑ If you want to change the entire program, press ■/CLEAR on the main Unit or PROGRAM on the Remote, and then you can start over.
- ❑ To view the order of the tracks in your program when it's playing, press Stop ■ on the Remote, then press I◄◄ or ►►I on the Remote to display the order of the tracks. Each time you press ►►I the next selection in your program is displayed. (Press I◄◄ for the previous selections.)
- ❑ To add a track to your program, just press CD 10KEY and the number you want to add using the Remote.

Repeat a selection or the whole CD

Repeating a Selection or the Entire Disc

- ❑ You can have either the program or the individual selection currently playing repeat as many times as you like by pressing REPEAT. Each time you press REPEAT, it cycles from OFF, which turns the REPEAT indication out on the display, to REPEAT which will repeat all tracks in order or according to the program you have set, and REPEAT 1 which will repeat the currently playing track. To cancel Repeat, just press REPEAT until the REPEAT or REPEAT 1 indication on the display goes off.

Listening to a Tape

Listen to a tape: How to use your tape deck

The tape deck allows you to play, record and dub audio tapes.
- ❑ To record or dub, see Recording page 15.
- ❑ With Automatic Tape Type Detection, you can listen to type I, II, or IV tapes without changing any settings.

COMPU PLAY

One Touch Play

By pressing either Play Forward ⊳ / Play Reverse ◁ (or Play Forward ▶/Play Reverse ◀ for deck A and B control on the Remote) the power will come on, and if a tape is in the deck, it will start to play. If no tape is loaded, the Unit will come on and wait for further instructions.

Playback Procedure

Regular Play

When power is already on, you can use this basic procedure:

1. Press EJECT, which is located just to the right of the deck, for the deck you want to use.
2. When the cassette carrier opens, put the cassette in, with the exposed part of the tape down toward the base of the CA-S50RBK.
   - ❑ If the cassette carrier does not open, turn the Unit off, then back on again and press EJECT.
3. Close the carrier gently.
4. Turn the volume down.
5. Press Play Forward ⊳ to play the front side, or Play Reverse ◁ to play the reverse side.
6. To stop playing, press Stop ■. To remove the tape, press EJECT.

Fast Left and Fast Right

- ❑ While the tape is stopped, press Fast Left ◀◀ and the tape will wind rapidly onto the left side of the cassette without playing.
- ❑ While the tape is stopped, press Fast Right ▶▶ and the tape will wind rapidly onto the right side of the cassette without playing.

Finding the place you want: Music Scan

Music Scan

To use the Scan function, you need to understand one basic idea, which might just make you a Master of Tape Control!

- ❑ Look at the Play Forward and Play Reverse Controls:

Deck A ***Deck B***

- ❑ When the power is on, the glowing LED shows the direction the tape was last moving. When the LED is blinking slowly, the tape is playing in the direction of the arrow. Now comes the tricky part: when the LED is blinking rapidly, the tape can be moving either the direction the arrow points, or the opposite direction, ***depending on whether you pushed*** **Fast Right ▶▶** ***or*** **Fast Left ◀◀.** The tape will be going at high speed in the direction of the arrows of the button you pushed. The direction of the arrow with the rapidly blinking LED shows which way the tape will start playing when the fast search is done. Put in a tape and try it out.
- ❑ The Scan function works by detecting a 4 second blank at the beginning of each selection, so it won't work well if your tape has:
  - No blank at the beginning of a track.
  - Noise (often caused by much use or poor quality dubbing) which fills the blank with.
  - Long very soft passages or pauses in a selection. The scan will detect these instead of the 4 second blanks. If this happens, just go ahead and scan again until you reach the selection you want.
- ❑ Music scan only works on one tape at a time.
  - If you use Music Scan on deck A while recording on deck B, recording will stop.

Scan Forward.....

Scan Forward

With the tape playing, to find the beginning of the next selection, press Fast Right ▶▶ or Fast Left ◀◀ whichever one points in the same direction as the arrow with the slowly blinking LED.

- ❑ The tape will fast forward to the next selection and begin playing it.

.....Scan Back

Scan Back

With the tape playing, to find the beginning of the selection now playing, press the Fast Right ▶▶ or Fast Left ◀◀ button pointing the opposite direction to the arrow with the slowly blinking LED.

- ❑ The tape will fast reverse to the beginning of the piece and start playing it again.

More Useful Things to Know:
•Reverse Mode
•Continuous Play
•Dolby NR

Useful hints and features to know about when using your tape deck

- ❑ Use **Reverse Mode** to make the tape automatically reverse at the end of a side and start playing the other side. Press REVERSE MODE to change from Reverse Mode on (the LED is lit) to Reverse Mode off, or from off, to on.
- ❑ **Continuous Play:** When a tape finishes playing with the Reverse Mode LED on, the Unit always checks to see if a tape is in the other deck. If one is there, it automatically starts playing it. This Continuous Play happens regardless of which deck starts first.
- ❑ Press DOLBY B NR to switch the **Dolby Noise Reduction** on (the LED lights up) or off (the LED goes off). If a tape is recorded with Dolby B NR, playing it back with Dolby NR on will reduce tape noise and improve the clarity of the sound.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Listening to a VCR or Record Player through your CA-S50RBK

Advantages in Connecting a VCR or Record Player

By playing the sound from a VCR or Record Player through the CA-S50RBK, you can often dramatically improve the quality, and gain control over how the music or program sounds. Once the connected equipment is playing through the CA-S50RBK, you can apply the sound effects, make recordings, or listen with the headphones. Here are the steps to take:

1. Make a connection between the VCR or Record Player as shown on page 5.
2. Press PHONO or AUX either on the Unit or Remote.
   - ❑ The Unit is turned on and PHONO or AUX lights up on the display.
3. Switch on the connected equipment and start it playing.
4. Set the Unit's volume to its lowest setting. Use FADE MUTING on the Remote, or turn the VOLUME control all the way counterclockwise.
5. To cancel the PHONO/AUX setting, change the source by starting any one of the CA-S50RBK's built-in sound sources, such as the radio or CD player.

Recording

What can you record?
•Tapes
•Radio
•CDs
•Microphone
•Connected Source

Recording onto cassette tape from any of the sound sources is easy and the CA-S50RBK does most of the work. Just have a tape in deck B, have the source ready, make one or two settings, and you're ready to record.
For each source the procedure is a little different and now we'll explain just what to do for each one. If you forget, just come back to the section which has the specific procedures you need. But first, here are a few things to make your recordings better.

Things to Know before You Start Recording

Copyright

- **It may be unlawful to record or playback copyrighted material without the consent of the copyright owner.**

Reduce Hiss—Dolby NR

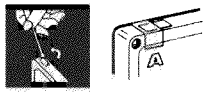
- Press DOLBY B NR (noise reduction) to reduce tape hiss.

Recording Level

- The recording level, which is the volume at which the new tape is being made, is automatically set correctly, so it is not affected by the VOLUME control on the CA-S50RBK. Thus, you can adjust the sound you are actually listening to without changing the recording. If you don't want to listen to the sound, you can turn the VOLUME control all the way down, or press FADE MUTING on the Remote.

Erasure Protection

- Cassettes have a special feature so you won't accidentally record over a tape you want to save. Two small tabs on the back, one for side A and one for side B, can be removed to prevent erasure or re-recording. To record on a cassette with the tabs removed, you must cover the holes with tape first. However, when a Type II tape is used, only cover part of the hole as shown below, since the other part of the hole is used to detect the tape type.



Select Sound Effects

- When recording, you can use the sound effects to condition the music as it is recorded. But when recording using Auto Edit or Programmed Edit, once recording has started, these settings cannot be changed. When recording from tape deck A to deck B, the sound effects cannot be used, because the signal doesn't go through the amplifier first. This method gives you the highest quality dubbed tapes.

- Type I and type II tapes can be used for recording. While type IV tapes can be played, type IV tapes cannot be used for recording on the CA-S50RBK.

☞ If recordings you make have excessive noise or static, the Unit may be too close to a TV which was on during the recording. Either turn off the TV or increase the distance between the TV and the CA-S50RBK.

Standard Recording: Any Source to Tape

Standard Recording

This is the basic method for recording any source. The CA-S50RBK also has special ways for recording CD to tape, and tape to tape, which save you time and effort, as well as give you some special effects.
However, when you need to add a selection to a tape you have made, or are combining selections from several sources on one tape, use the method we describe here; just substitute the source you want, such as a tape in deck A, or CD, or radio in this procedure. You can also record from the microphone or an auxiliary source with this procedure.

Source to Tape: Step by Step

Recording any Sound Source to Tape

Follow these steps to record from any sound source onto a tape in deck B.

1. Press POWER so the LED on the VOLUME control glows.
   - ❑ When you want to record on both sides of the tape, press REVERSE MODE to on and be sure to start recording from the front side (A). If you start recording from the reverse side (B), the deck stops after recording the reverse side (B) without going to the front side (A), even if the Reverse Mode is on.
2. Load the tape you are making into deck B.
3. Press REC PAUSE. The LED lights up.
4. Prepare the source, for example, tuning in a radio station, loading a CD, turning on a connected Record Player or VCR, etc.
   - ❑ If the source is already playing, just press REC PAUSE, then press either Play Forward ▷ to record on the front side (A), or Play Reverse ◁ to record on the reverse side (B).
5. When you want to start recording, press either Play Forward ▷ to record on the front side (A), or Play Reverse ◁ to record on the reverse side (B).
   - ❑ To pause recording any time during the process, press REC PAUSE again, then press Play Forward ▷ or Play Reverse ◁ to start recording again.
     To stop recording any time during the process, press Stop ■ on deck B

CD to Tape, Introduction

CD to Tape Recording

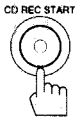
There are four ways to record from CD to tape:

- ❑ The standard method described above.
- ❑ CD Direct —Everything on the CD goes onto the tape in the order it is on the CD or according to an order you have set in a program.
- ❑ Auto Edit—Your CA-S50RBK figures out which selections to put on which side of the tape, so a selection isn't cut off before it's finished when the tape runs out.
- ❑ Programmed Edit—You can decide the selections to be recorded in your desired order.

CD Direct Recording, Step by Step

CD Direct Recording

This is the easiest way of recording a CD. Everything on the CD goes onto the tape in the order it is on the CD or according to an order you have set in a program. To make a program, see page 12.



1. Put the cassette in deck B.
   - ❑ Press REVERSE MODE if you want to record on both sides of the cassette.
2. Load the CD into the CD Player.
   - ❑ If the CD is already loaded, be sure the power is on.
3. Set the sound effects you want now, since the sound environment cannot be changed once recording starts.
4. Now press CD REC START on the tape deck. The FADE indicator lights up on the display.
   - ❑ Deck B begins to record, and soon the CD begins to play. At the end of the tape, the CA-S50RBK automatically goes back to the beginning of the last selection and re-records it, this time gently fading out at the end. If you select the Reverse Mode, the reverse side (B) starts with the last selection on the front side (A) and will be faded out at the end again. (A 10 second blank is created on the beginning of the reverse side (B).)
   - ❑ To stop recording any time during the process, press either Stop ■ on deck B or ■/CLEAR (when you press ■/CLEAR you can make a 4 second blank at the end of the recording). Pressing ⏏ OPEN/CLOSE will also stop recording.

☞ SEARCH/EDIT TIME ⏮⏮ or ⏭⏭, REPAET and RANDOM will work during CD Direct Recording.

Auto Edit, CD to tape, Introduction

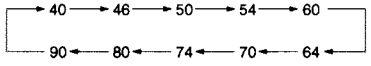
Recording a CD onto a Tape Using Auto Edit

Using Auto Edit, you can arrange the CD tracks to fit the tape, so a selection isn't cut off when the tape runs out first. Auto Edit is one of the best ways to copy all of a CD onto a tape.
The selection of which tracks go on which side is based on the lengths of the tracks and the length of the tape. The CA-S50RBK can figure out most of what it needs to know, but you will have to tell it the tape size you are using if your tape is a different size than the one picked by the program. Follow this procedure to record a CD using Auto Edit.

Auto Edit, CD to tape, Step by Step

1. Put the cassette in deck B.
   - ❑ Press REVERSE MODE if you want to record on both sides of the cassette.
2. Load the CD into the CD Player.
   - ❑ If the CD is already loaded, be sure the power is on and the source is CD. If the last selected source is tuner, the Unit will not recognize the loaded CD when turning on the Unit by presssing POWER.
3. Set the sound effects you want now, since the sound environment cannot be changed once recording starts.
4. Press ■/CLEAR.
   - ❑ This cancels the previous edit or program setting.

5. Press EDIT on the CD player so that "[EDIT]AUTO" appears in the display. The system tells you the minimum standard tape length to use.
   - ❑ You can select a different length of tape, depending on the actual size of the tape you are using, from ten possibilities programmed into the CA-S50RBK: 40, 46, 50, 54, 60, 64, 70, 74, 80, 90. Cycle through these choices using the SEARCH/EDIT TIME I◄◄ or ►►I until you find the length closest to your tape's actual length.



   - ❑ You can use the CD 10KEY and the numeric buttons on the Remote to set the tape length as you wish. In this case, it is not necessary to press SIDE A/B in step 6 below.
6. Press SIDE A/B, and the display shows which tracks will go on side A and which on side B. Each time you press SIDE A/B the display switches between A and B.
7. Now press CD REC START on the tape deck. The FADE indicator lights up on the display.
   - ❑ The tape automatically rewinds to the beginning of the front side (A), a 10 second blank is created, and the CD begins to play and be recorded. (A 10 second blank is also created on the beginning of the reverse side (B).)
   - ❑ If you use a tape shorter than the total playing time of the CD, the last recorded selection will be fading out at the both ends of the tape.
   - ❑ To stop recording any time during the process, press either Stop ■ on deck B or ■/CLEAR (when you press ■/CLEAR you can make a 4 second blank at the end of the recording). But remember: after you stop, if you restart, the tape will rewind and start recording the CD from the beginning. Pressing ▲ OPEN/CLOSE will also stop recording.

Programmed Edit, CD to tape, Introduction

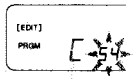
Recording a CD onto a Tape Using Programmed Edit

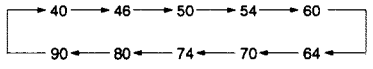
Using Programmed Edit, you can decide for yourself the selections to be recorded in your desired order. First, you will have to tell the Unit the tape size you are using if your tape is a different size than the one picked by the Unit. Then, you can make your program as you wish.

Programmed Edit, CD to tape, Step by Step

Follow this procedure to record a CD using Programmed Edit.

1. Put the cassette in deck B.
   - ❑ Press REVERSE MODE if you want to record on both sides of the cassette.
2. Load the CD into the CD Player.
   - ❑ If the CD is already loaded, be sure the power is on and the source is CD. If the last selected source is tuner, the Unit will not recognize the loaded CD when turning on the Unit by pressing POWER.
3. Set the sound effects you want now, since the sound environment cannot be changed once recording starts.
4. Press ■/CLEAR.
   - ❑ This cancels the previous edit or program setting.
5. Press EDIT on the CD player so that "[EDIT]PRGM" appears in the display. The system tells you the minimum standard tape length to use.
   - ❑ You can select a different length of tape, depending on the actual size of the tape you are using, from ten possibilities programmed into the CA-S50RBK: 40, 46, 50, 54, 60, 64, 70, 74, 80, 90. Cycle through these choices using the SEARCH/EDIT TIME I◄◄ or ►►I until you find the length closest to your tape's actual length.





   - ❑ You can use the CD10KEY and the numeric buttons on the Remote to set the tape length as you wish. In this case, it is not necessary to press SIDE A/B in step 6 below.
6. Press SIDE A/B.
   Now the tape size is determined and you can make a program for side A. (See page 12.)
7. After making a program for side A, press SIDE A/B again so you can make another program for side B. (See page 12.)

8. Now press CD REC START on the tape deck. The FADE indicator lights up on the display.
   - ❑ The tape automatically rewinds to the beginning of the front side (A), a 10 second blank is created, and the CD begins to play and be recorded. (A 10 second blank is also created on the beginning of the reverse side (B).)
   - ❑ If the playing time of the program for one side is longer than the length of one tape side, the last recorded selection will be fading out at the end of the tape side.
   - ❑ To stop recording any time during the process, press either Stop ■ on deck B or ■/CLEAR (when you press ■/CLEAR you can make a 4 second blank at the end of the recording). But remember: after you stop, if you restart, the tape will rewind and start recording the CD from the beginning. Pressing ▲ OPEN/CLOSE will also stop recording.

☞ Using Auto Edit and Program Edit, you can program up to 16 tracks for each side of the tape, and cannot program a track the number of which on the disc is greater than 31.

Tape to Tape Dubbing, Introduction

Tape to Tape Recording (Dubbing)

Recording from one tape to another is called dubbing.
You can dub at regular speed for highest quality, or at high speed with a slight loss in sound quality. With high speed it takes only about one-half the time to copy a tape.

- ❑ To dub both sides of a tape, start from side A for both deck A and B, and press REVERSE MODE so that the LED next to it lights up.

Regular Speed Dubbing, Step by Step

How to Copy a Tape With Regular Speed Dubbing

1. Put the cassette you want to copy *from* into deck A for playback.
2. Put the cassette you want to copy *onto* into deck B for recording.
   - ❑ Anything already on the cassette in deck B will be erased as the new sound from deck A is copied onto it.
3. Press REC PAUSE on deck B.
4. Press the Play Forward ▷ (or Play Reverse ◁) on deck A.
   - ❑ Deck A starts playing and you are set to start recording deck A to deck B.
5. Press the Play Forward ▷ (or Play Reverse ◁) on deck B.
   - ❑ Recording starts, deck A playing and deck B recording.

High Speed Dubbing, Step by Step

High Speed Dubbing

Although the quality of the dubbed tape is a little less, high speed dubbing is a very convenient way to record from one tape to another.

1. Put the cassette you want to copy *from* into deck A, and the cassette to be copied *onto* in deck B.
2. Press HIGH SPEED DUBBING on the tape deck.
   - ❑ Both decks start, deck A playing and deck B recording.
     - The sound you hear is strange because it is much faster than usual, and you may not want to listen to it. Turn down the VOLUME control or press FADE MUTING on the Remote.
     - When using High Speed Dubbing, you can also listen to another source such as the radio or the CD player, just as if you weren't dubbing.
     - During High Speed Dubbing, if you listen to a CD with Auto Power Off turned on , the whole Unit, including the tape decks, may turn off when the CD ends.

Recording selections from several different tapes

When you want to take selections from several different tapes and combine them on one tape during high speed dubbing, follow these steps:

1. Press Stop ■ on deck A.
   - ❑ This causes deck A to stop, so you can change tapes, and deck B makes a 4 second blank and pauses.
2. Change the tape in deck A.
3. Press HIGH SPEED DUBBING to start deck A playing and deck B recording again.

Important dubbing information

- ❑ Dolby NR is inactive in dubbing mode regardless of the setting of the DOLBY B NR switch. The dubbed tape automatically contains the same processing as the source tape. The DOLBY B NR indicator goes off automatically.
- ❑ It is preferable that the tape type (Type I or II) you record from be the same as the tape type you record onto. When the tape you are recording from in deck A is a METAL (type IV) tape, use a CrO_2 (type II) tape for recording in deck B.
- ❑ During regular speed dubbing you can only listen to the source tape. If you don't want to hear it, turn down the VOLUME control or press FADE MUTING on the Remote. Only the sound you hear will be affected; the recording level is controlled automatically.
- ❑ You cannot dub using the sound effects such as POPS, STADIUM, etc.

(No.20476) 1-11

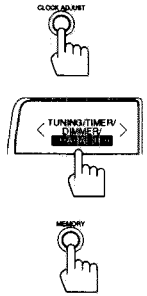
How to Use the Timers and Set the Clock

Five Timers:
•Recording
•Once/Daily
•Wake up
•Sleep
•Auto Power Off

The timers let you control recording and playing functions automatically. Five types of timers are available:

- ❑ **Recording Timer** —Unattended recording of radio broadcasts.
- ❑ **Once/Daily Timer**—The Unit comes on playing a source at a particular time.
- ❑ **Wake up Timer**—Wake up to music from any source.
- ❑ **Sleep Timer**—Fall asleep and have your CA-S50RBK turn off automatically after a certain length of time.
- ❑ **Auto Power Off**—Automatically turns off the Unit when the CD or tape finishes.

IMPORTANT!
Set your clock!



Clock Setting

The timers depend on the clock: If the clock is right, the timers will work like you expect, but if the time is incorrect on the clock then the timers will also be incorrect.

Special Notice: The clock must be set, or the timers cannot be set!
So, let's set the clock first.

1. Press CLOCK ADJUST.
2. Set the hours by pressing TUNING/TIMER/DIMMER/CHARACTER < or >.
   Pressing > increases the hour, and pressing < decreases it.
3. Press MEMORY.
4. Set the minutes by pressing TUNING/TIMER/DIMMER/CHARACTER < or >.
   Pressing > increases the minute, and pressing < decreases it.
5. Press MEMORY again and the clock is set and starts from zero second.

☞ If there is a power failure, the clock loses its setting, the display shows "0:00" and it must be reset.

Recording when you're not there

Setting the Recording Timer

With the Recording Timer you can make a tape of a radio broadcast automatically whether or not you are there to start the CA-S50RBK. For the timer to work correctly, you need to make sure that the tape you want to record onto must be in deck B when you want to record.

1. Press REC to tell the Unit which timer you are going to set.
   The REC indicator flashes in the display.
2. Set the time you want the sound source to come on and the tape in deck B to start recording.
   - ❑ Use TUNING/TIMER/DIMMER/CHARACTER < or > and MEMORY just like setting the clock. See instructions above.
3. Set the time you want the sound source to shut off and the tape in deck B to stop recording.
   - ❑ Use TUNING/TIMER/DIMMER/CHARACTER < or > and MEMORY just like setting the clock. See instructions above.
4. Select the station with PRESET/PTY.TP < or >.
5. Press REC again, and the Unit will memorize the setting.
   Now the CA-S50RBK is set to turn on and record the selected station.
   - ❑ The volume level during timer recording will be automatically set to minimum.
   - ❑ Notice that the REC indicator is lighted up on the display whenever the Timer is set.
6. To cancel the Timer setting, press REC again; the REC indicator on the display goes off.
   To check the timer contents, press REC so that the REC indicator flashes, and then press REC again.

☞ You will see "VOLUME-0" on the display after setting is complete or while checking the timer contents. This indication means that the volume level during timer recording is set to minimum.
☞ If you use the Sleep Timer during timer recording, the setting will be canceled though recording continues. In this case, recording will stop when the tape comes to its end or when the Sleep Timer shuts off the Unit.

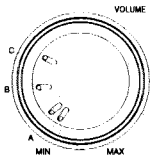
Setting the Once/Daily Timers

With these timers you can play the sound source at the specified time without recording them. The Once Timer works only once, while the Daily Timer executes the timer operation at the specified time every day.

1. Press ONCE or DAILY to tell the Unit which timer you are going to set.
   The corresponding indicator (ONCE or DAILY) flashes in the display.
2. Set the time you want the sound source to come on.
   - ❑ Use TUNING/TIMER/DIMMER/CHARACTER < or > and MEMORY just like setting the clock.
3. Set the time you want the sound source to shut off.
   - ❑ Use TUNING/TIMER/DIMMER/CHARACTER < or > and MEMORY just like setting the clock.
4. Select the sound source with TUNING/TIMER/DIMMER/CHARACTER < or > and MEMORY to store it.
   - ❑ Each time you press TUNING/TIMER/DIMMER/CHARACTER < or >, the Unit gives you one of the following settings:

Display	What it means
TUNER	Plays the last received station
CD - - -	Plays a CD
TAPE	Plays a tape
- - - -	Plays from whichever source was used just before turning off the Unit

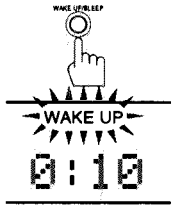
   - ❑ When you select CD as the source, you can designate the first track to play from the first 20 tracks on the disk by pressing PRESET/PTY.TP < or >.
5. Set the volume level with TUNING/TIMER/DIMMER/CHARACTER < or >.
   - ❑ Each time you press TUNING/TIMER/DIMMER/CHARACTER < or >, the Unit gives you one of the following settings:



Display	What it means
VOLUME - -	Volume set to the level used before shut the power off.
VOLUME-A	Volume barely on.
VOLUME-B	Volume at about a 1/4 turn of the volume control
VOLUME-C	Volume at about a 3/8 turn of the volume control

6. Press ONCE or DAILY again, and the Unit will memorize the setting.
   - ❑ Notice that the ONCE or DAILY indicator is lighted up on the display whenever the Timer is set.
7. To cancel the Timer setting, press ONCE or DAILY again; the corresponding indicator on the display goes off.
   To check the timer contents, press ONCE or DAILY so that the ONCE or DAILY indicator flashes, and then press ONCE or DAILY again.

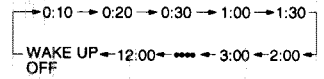
Wake up to music with the Wake Up Timer



Wake Up Timer

With this timer you can wake up to music from a CD, tape or your favourite radio program.

1. Press POWER to shut the Unit off.
2. Press WAKE UP/SLEEP—The WAKE UP indicator will light up in the display.
3. Set the time you want the Unit to turn on.
   - ❑ Each time you press WAKE UP/SLEEP, the wake up time lapse changes in the following order:



   - ❑ The WAKE UP indicator remains lit in the display to let you know that the wake-up time is set.
4. To cancel the Wake Up Timer setting, press POWER to turn on the Unit.

Hints for using your Wake Up Timer:

- ❑ If you select AM (MW/LW) or FM as the source, the last played station is the one which comes on at the wake-up time set.
- ❑ The volume when the timer turns on the source is the volume last set when the CA-S50RBK was turned off. This can be quite a surprise first thing in the morning, so you might want to reset it before going to sleep.
- ❑ If the CD is the source, it starts playing from the first track.

Sleep Timer: turns the Unit off automatically at a set time

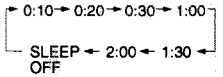
Sleep Timer

Use the sleep timer to turn the Unit off after a certain number of minutes when it is playing. Using this timer, you can fall asleep to music and know your CA-S50RBK will turn off by itself rather than play all night.

- ❑ You can only set the Sleep Timer when the CA-S50RBK is on and a source is playing.
- ❑ To cancel the Sleep Timer, press POWER to turn off the Unit.

To set the Sleep Timer follow this procedure:

1. With the CA-S50RBK on and a source playing, press WAKE UP/SLEEP. The SLEEP indicator on the display will start blinking.
2. Set the length of time you want the source to play before shutting off.
   - ❑ Each time you press WAKE UP/SLEEP while the SLEEP indication is blinking, it changes the number of minutes shown on the display in this sequence:



   - ❑ When the number of minutes you want is shown on the display, just wait 5 seconds until the indicator stops blinking, but remains lighted.

The Unit is now set to turn off after the number of minutes you set.

Checking the Remaining Time

After setting the Wake Up or Sleep Timer, you can check the time remaining until the Unit turns on (Wake Up Timer) or shuts off (Sleep Timer).

- ❑ Pressing WAKE UP/SLEEP shows you the remaining time on the display for 5 seconds. Then the display returns to the clock time display (Wake Up Timer) or the radio frequency display (Sleep Timer).

Auto Power Off: turns off your CA-S50RBK automatically

Turning off the CA-S50RBK Automatically

When playing either a tape or a CD, Auto Power Off will shut the Unit off when the tape or CD comes to the end. Auto Power Off is very useful for shutting off the CA-S50RBK at night.

To use Auto Power Off, press AUTO POWER OFF.

- ❑ If the AUTO OFF indicator in the display is on, Auto Power Off is on, and the source will automatically turn off when the tape or CD finishes.
- ❑ If the AUTO OFF indicator is off, Auto Power Off is also off.

Important information on using Auto Power Off

- ❑ CD repeat mode cannot be used with Auto Power Off. If you do so, the repeat mode will be canceled so that Auto Power Off will be able to work.
- ❑ If you press AUTO POWER OFF while the tape is playing:
  - If Reverse Mode is off (the Reverse Mode LED is not lit), the Unit turns off when the currently playing side finishes.
  - If Reverse Mode is on (the Reverse Mode LED is lit), the Unit plays the side currently playing, reverses and plays the other side, then shuts off.

Timer Priority

Since each timer can be set independently, you may have wondered what happens if the settings overlap. Here are the priorities for each timer.

- ❑ The Wake Up Timer will have priority over any other timers.
- ❑ If the Recording, Once, and Daily Timers have the same starting time, the timer will work for only one of the three settings according to the following priority:
  Recording Timer > Once Timer > Daily Timer
- ❑ If the Recording, Once, and Daily Timers are set within the same time range, each timer will come on at the time you have set. If another timer is already on, that timer will be shut off when the second timer starts.
- ❑ If the Sleep Timer has been set within the same time range as another timer, the other timer operation will be executed until the Sleep Timer shuts off the Unit. In this case, the setting for the other timer will be canceled.
- ❑ Timer operations with the starting time while the Sleep Timer is operating will not be executed. When the set time comes, the REC or ONCE indication goes off. (The DAILY indication does not goes off.)
- ❑ If the Sleep Timer and Auto Power Off have been set within the same time range, the timer operation with the earlier ending time will have priority.
- ❑ If a timer operation begins during Auto Power Off, the timer operation will have priority.
- ❑ If Auto Power Off is used during a timer operation, Auto Power Off will have priority.

Singing Along

What is Vocal Masking?

When you press VOCAL MASKING, the lead vocal is reduced, and you can replace it by singing into the microphone as the music plays. No microphone is supplied with the CA-S50RBK, so you can select your own from the many kinds available.

Singing-Along Procedure

How to Sing Along with Vocal Masking

1. Turn the MIC MIXING control all the way counterclockwise to the MIN position.
2. Attach the microphone (not supplied) by plugging it into the MIC jack in the amplifier section.
3. Start the source—CD, Tape, connected VCR, Record Player.
4. Press VOCAL MASKING—the LED will light up.
5. Now adjust the volume of the source with the main VOLUME control, and the volume of your voice with the MIC MIXING control as you sing into the microphone.

Recording a Singing-Along Session

Recording Your Singing-Along

- ❑ You cannot record your singing-along when the main source is a tape in deck A.

1. Put the cassette you want to record onto in deck B.
2. Press REC PAUSE—see Recording, page 15 if you need more information about tape recording.
3. Follow the above procedure "How to Sing Along with Vocal Masking."
4. Press Play Forward ▷ (or Play Reverse ◁) on deck B, and deck B will start recording the source together with your voice in place of the lead vocal.

Important information about Vocal Masking

- ❑ Since the radio signal is not as reliable as signals coming from a tape or CD, you may not always get satisfactory results using the radio as a source for Vocal Masking.
- ❑ Some tapes and CDs are better sources for singing along than others.
  - Monaural sources are not suitable for Vocal Masking.
  - On sources with duets, strong echoes, a chorus, or with only a few instruments, the singer's voice may not be completely reduced.
  - Poorly dubbed tapes may not work well for Vocal Masking.

Recording from the Microphone

Two ways of recording with the microphone

You can use the microphone for two kinds of recording:

- ❑ Mixing—Sound going into the microphone is mixed with sound sent to the tape in deck B from some other source, such as the CD, or radio.
- ❑ Regular recording—Only sound picked up by the microphone is recorded.

Special techniques for using the microphone

Mixing

1. Put the cassette you want to record onto in deck B.
2. Connect the microphone to the MIC jack.
3. Set deck B to recording pause mode by pressing REC PAUSE.
4. Start the source (radio, CD, and PHONO/AUX) and set the VOLUME control.
5. Adjust the microphone volume with the MIC MIXING control.
6. When you are ready to record, press Play Forward ▷ (or Play Reverse ◁) on deck B, and both sounds from the microphone and from the playing source will be recorded.

Regular Microphone Recording

1. Put the cassette you want to record onto in deck B.
2. Connect the microphone to the MIC jack.
3. Set deck B to recording pause mode by pressing REC PAUSE.
4. Adjust the volume of the microphone with the MIC MIXING control.
5. Now when you press Play Forward ▷ (or Play Reverse ◁) on deck B, whatever sounds the microphone picks up will be recorded.

Important information for using the microphone

- ❑ You may have to experiment some to see just where to set the MIC MIXING control to get the best recorded sound.
- ❑ To prevent howling and squealing when using the microphone, adjust the MIC MIXING control and the VOLUME control, and try not to point the microphone at the speakers.
- ❑ When you are not using the microphone, keep the MIC MIXING control set to MIN. It is best to disconnect the microphone when you will not be using it for a while.

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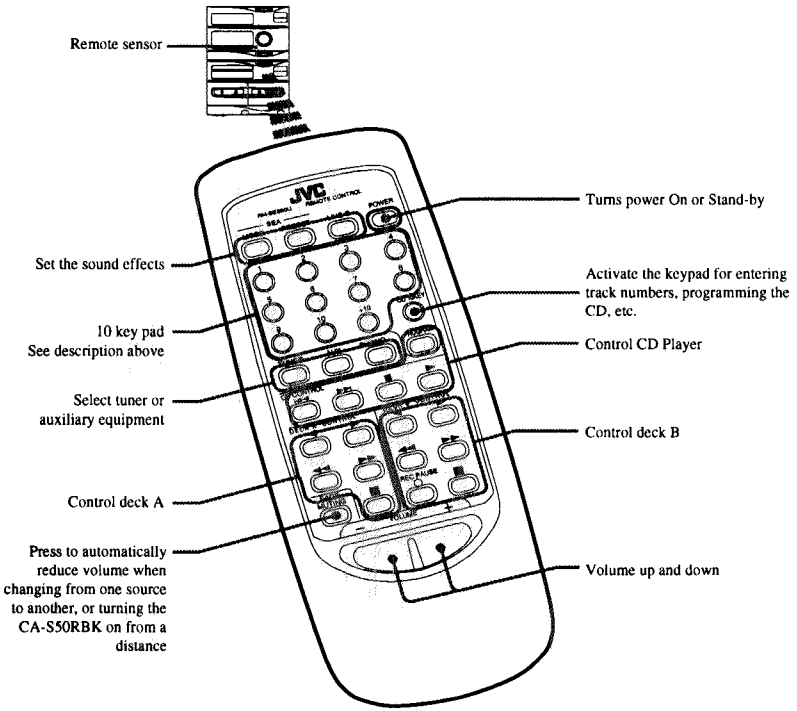
How to Use the Remote Control

The Remote Control makes it easy to control many of the functions of the CA-S50RBK from a distance of up to 7 m away.
Most of the buttons on the Remote Control do just what the ones on the front of the CA-S50RBK do, and they are explained in the manual. A few functions are available only by using the Remote Control, and those are described below.

Using the 10 Key Pad

The 10 key pad is used to specify a CD track, the number you have assigned to a preset radio station, or a sound effect. To enter a number using the 10 key pad follow these steps:

- Before using 10 key pad, check to see whether the 10 key pad is functioning to operate the CD player or tuner. This depends on which button on the Remote you have pressed before using 10 key pad.
  To select preset stations, press TUNER first.
  To select CD tracks, press CD 10KEY first.
- For numbers between 1 and 10, just press the button with the number you want.
- For numbers from 11 to 20, first press the +10 key, then the one's digit of the number you want—to get 15, first press +10, then 5. For 20, press +10 and 10 .
- For numbers from 21 to 30, press the +10 key twice; then press the one's digit—to get 25, press +10 +10 and 5. For 30, press +10 +10 and 10.
- For numbers from 31 and 40, follow the same procedure, only press the +10 key three times, then the one's digit—to get 32, press +10 +10 +10 and 2.


Remote sensor
Turns power On or Stand-by
Set the sound effects
Activate the keypad for entering track numbers, programming the CD, etc.
10 key pad
See description above
Control CD Player
Select tuner or auxiliary equipment
Control deck B
Control deck A
Press to automatically reduce volume when changing from one source to another, or turning the CA-S50RBK on from a distance
Volume up and down

Specifications

Tuner/Amplifier Section

Amplifier
Output Power (IEC 268-3/DIN)
35 watts per channel, min. RMS, both channels driven, into 8 ohms at 1 kHz with no more than 0.9% total harmonic distortion.

Input Sensitivity/Impedance (1 kHz)	
PHONO	3 mV/47 kohms
AUX/VIDEO	300 mV/47 kohms
MIC	2 mV/10 kohms
Speaker terminals	
Speakers	8 ohms

Tuner
FM Tuner

Tuning Range	87.5 – 108.0 MHz
Usable Sensitivity	0.95 µV/75 ohms (10.8 dBf)
Signal-to-Noise Ratio	
(IHF-A weighted)	MONO (at 85 dBf) 80 dB
	STEREO (at 85 dBf) 73 dB
(DIN)	MONO 72 dB
	STEREO 64 dB

AM (MW/LW) Tuner

MW-Tuning Range	522 – 1,629 kHz
LW-Tuning Range	144 – 288 kHz
Dimensions (Approx.)	245 x 183 x 343 mm (w/h/d) ($9^{11}/_{16}$ x $7^{1}/_{4}$ x $13^{9}/_{16}$ in.)
Weight (Approx.)	5.0 kg (11.1 lbs)

CD/Tape Deck Section

Tape deck

Frequency response	
CrO_2 (Type II):	30 – 16,000 Hz
Normal (Type I):	30 – 15,000 Hz
Wow and Flutter	0.09% (WRMS)/0.2% (DIN)

Compact Disc Player

Dynamic Range (1 kHz)	96 dB
Signal-to-Noise Ratio	102 dB
Wow and Flutter	Unmeasurable
Dimensions (Approx.)	245 x 183 x 295 mm (w/h/d) ($9^{11}/_{16}$ x $7^{1}/_{4}$ x $11^{5}/_{8}$ in.) (Maximum depth 394 mm ($15^{9}/_{16}$ in.) with the CD tray open)
Weight (Approx.)	4.2 kg (9.3 lbs)

Power specifications

Power Requirements	AC 230 V ∿, 50 Hz
Power Consumption	112 watts

Supplied Accessories
FM wire antenna (only for Germany) (1)
FM feeder antenna (except for Germany) (1)
AM (MW/LW) loop antenna (1)
Remote control (RM-SES50U) (1)
Batteries R03(UM-4)/AAA(24F) (2)
Antenna adaptor (except for Germany) (1)

Design and specifications are subject to change without notice.